Name:	Date:	Period:	

Unit 4 Day 3 - Writing Systems of Equations Part 1 Classwork

Translate these phrases into mathematical equations:

- 1. Four less than twice a number is nine.
- 2. Twice a number is 18 more than five times the number.
- **3.** Ten times x is twice the sum of x and eight.

Match the sentence in the first column with the corresponding equation in the second column:

4. Three less than twice a number is eight.

a) 3x - 2 = 8

5. Three times the quantity two less than x is eight.

b) 3(x-2) = 8

6. Two less than the product of three and x is eight.

- c) 3.2 x = 8
- 7. Two times the number which is three less than x is eight.
- d) 2x 3 = 8

8. Three times two decreased by x is eight.

e) 2(x-3) = 8

For each problem define your variables, write a system of equations, and solve the system of equations.

- 9. Jose watched 6 times as many hours of television over the weekend as Doreen. Together they watched a total of 14 hours of television. How many hours of television did each person watch over the weekend?
- a) What are your variables? What do they represent?
- b) Write the 2 equations.
- c) Solve the system.

10. Two numbers have a sum of 21. One number is 3 more than the other one. What are the two numbers?
a) What are your variables? What do they represent?
b) Write the 2 equations.
c) Solve the system.
11. In a recent post-season, Adam Vinatieri of the Indianapolis Colts made a total of 21 field goals and extra-point kicks for a total of 49 points. If a field goal is 3 points and an extra-point kick is 1 point, how many field goals and how many extra-point kicks did he make?
a) What are your variables? What do they represent?
b) Write the 2 equations.
c) Solve the system.